

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	("3664184"   "4058178"   "4860639"   "5163660"   "5905212").PN. OR ("6216581").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/23 10:36
L2	70	("20040167738"   "20050025631"   "20070132603"   "2275532"   "2477854"   "3160836"   "3168826"   "3178938"   "3472069"   "3535923"   "3611881"   "3621927"   "3695096"   "3707076"   "4058178"   "4294163"   "4615420"   "4644785"   "4756516"   "5040775"   "5159832"   "5163660"   "5214594"   "5377549"   "5591921"   "5592386"   "5904071"   "6144307"   "6204771"   "6216581"   "6922152").PN. OR ("4058178"   "4860639"   "5163660"   "7656305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/23 10:39
S2	12	("3498123"   "3847507"   "4450811"   "4606312").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/06/29 16:53
S3	18	((JOSEPH) near2 (LUONGO)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:55
S4	33	((JOSEPH) near2 (LUONGO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:56
S5	9	((JOHN) near2 (ANGELOSANTO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:56
S6	5	((JOHN) near2 (ANGELOSANTO)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:56
S7	9	((FRANK) near2 (RUBINO)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:56
S8	10	((FRANK) near2 (RUBINO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:56
S9	0	((STANLEY) near2 ("PENSAK JR")).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:56
S10	7	((STANLEY) near2 ("PENSAK JR")).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:56

S11	1	((DAVID) near2 (FIRST)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:57
S12	7	((DAVID) near2 (FIRST)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:57
S13	1	((JEAN-PIERRE) near2 (PUGNAIRE)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:57
S14	10	((JEAN-PIERRE) near2 (PUGNAIRE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:57
S15	4	((RICHARD) near2 (VENABLE)).INV.	EPO; JPO; DERWENT	OR	ON	2011/06/29 16:57
S16	9	((RICHARD) near2 (VENABLE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 16:58
S17	21	("5528819", "5761005", "4949194", "4380931", "4434660", "4807063", "4906885", "5966060", "6186005").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/06/29 17:00
S22	14	("2597751", "3037178", "3180139", "3195353", "3196676", "3272006", "3320569").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/29 20:08
S23	85	("1335238"   "2450882"   "2517976"   "2595524"   "3093946"   "3342195"   "3373872"   "3439622"   "3514217"   "3556679"   "3601103"   "3612729"   "3736910"   "3738346"   "3851469"   "4356551"   "4450811"   "4481925"). PN. OR ("3413845"   "3847507"   "4606312"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/30 09:01
S24	65	("20010017123"   "20010017127"   "20020020388"   "20020026926"   "20020040708"   "20020053336"   "20020078918"   "3707953"   "4314534"   "4449501"   "4556030"   "4606312"   "4621603"   "4622939"   "4624229"   "4651562"   "4658794"   "4920494"   "4928653"   "5218945"   "5245969"   "5474054"   "5533492"   "5542392"   "5588416"   "5615655"   "5622053"   "5623819"   "5735245"   "5765532"   "5785031"   "5791145"   "5832880"   "5875743"   "5878717"	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/30 13:22

		"5992388"   "6032617"   "6230683"   "6243641"   "6276334"   "6286482"   "6289877"   "6354268"   "6367317"   "6408625"   "6516774"   "6516781"   "6560526"   "6561157"   "6598468"   "6640773"   "6659071"   "6810320"). PN. OR ("7000596").URPN.				
S25	279	(pressure and (sens\$3 or measur\$4 or detect\$4) and strain and pump).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 13:46
S26	49	S25 and (chamber).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 13:46
S27	82	(pressure with (sens\$3 or measur\$4 or detect\$4) with strain same pump).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 14:11
S28	67	S27 not S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 14:11
S29	9	(pressure and (sens\$3 or measur\$4 or detect\$4) and strain and (piston near3 pump)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 14:13
S30	160	S25 not (S26 or S27 or S28 or S29)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 14:59
S31	4	(pressure with strain with (pump near3 chamber)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:38
S32	12	(pressure with strain with pump with chamber).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:39
S33	8	S32 not S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:39
S34	65	(pressure with strain with (pump near3 chamber))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:41

S35	61	S34 not (S32 or S31 or S25)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:42
S36	4355	(pressure with(sens\$3 or measur\$4 or detect\$4) with strain and pump)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:54
S37	3	S36 and (strain near3 gauge near3 (pump or chamber) near3 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:55
S38	46	S36 and (strain with pressure with (pump or chamber) with wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 15:57
S39	15	("3561831"   "3603152"   "3942049"   "4146875"   "4192179"   "4214484"   "4217781"   "4391147"   "4404854").PN. OR ("4775816").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/30 16:56
S40	3	("4194401").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/06/30 19:51
S41	6	"7707878"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 10:47
S42	11	pump same housing same titanium same aluminum same vanadium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 10:49
S43	24	"6609883"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 10:51
S44	10483	pump and (Ti6Al4V or (Ti adj 6Al adj 4V) or (Ti near 6-4) or (aluminum and vanadium and titanium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 12:27
S45	4124	pump and (Ti6Al4V or (Ti adj 6Al adj 4V) or (Ti near 6-4) or (aluminum with vanadium with titanium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 12:27
S46	3	pump with housing with (Ti6Al4V or (Ti adj 6Al adj 4V) or (Ti near 6-4) or (aluminum with vanadium with titanium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 12:27

S47	14	pump same housing same (Ti6Al4V or (Ti adj 6Al adj 4V) or (Ti near 6-4) or (aluminum with vanadium with titanium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 12:30
S48	5	"2005042064"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 12:51
S49	120742	"417".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 13:27
S50	821	417/437.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/07/01 13:27
S51	121149	"417".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:37
S52	109	S51 and (strain with housing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:37
S53	38	S51 and (strain near4 housing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:38
S54	0	S53 not S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:43
S55	71	S52 not S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:43
S56	1704	(strain with (gauge or sensor) with pressure) and pump\$3 and (piston or plunger)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:46
S57	97	"417".clas. and (strain with (gauge or sensor) with pressure) and pump\$3 and (piston or plunger)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:46
S58	94	S57 not S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:47

S59	2	"417" .clas. and (strain with (gauge or sensor) with pressure with housing) and pump\$3 and (piston or plunger)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/10/05 16:49
S61	1567	417/63.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:00
S62	660	417/559.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:01
S63	2221	S61 or S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:01
S64	115	S63 and strain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:01
S65	76	S64 and (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:03
S66	100	S61 and strain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:04
S67	64	S66 and (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 10:04
S68	12	S65 not S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:31
S69	584	73/726.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:39
S70	37	S69 and pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:39
S71	15	S70 and (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:40
S72	22	S70 not S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:42

S73	832	73/168.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:50
S74	547	S69 not S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:51
S75	45	S74 and (cylinder or cylindrical) with housing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 11:52
S76	502	S74 not S75	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:06
S77	54	("1335238"   "3093946"   "3342195"   "3373872"   "3439622"   "3514217"   "3556679"   "3612729"). PN. OR ("3847507").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/17 12:08
S78	23	S76 and (exterior with (surface or wall))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:15
S79	39	S64 not S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:20
S80	0	S74 and pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:36
S81	351	S74 and strain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:36
S82	12	S81 and (cylinder with housing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:37
S83	339	S81 not S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:39
S84	339	S83 not (S61 or S62 or S73)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:41
S85	30922	pump\$3 and (housing with (cylinder or cylindrical) with (wall or surface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:43

S86	1382	S85 and (strain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:43
S87	1	S86 and ((strain adj (gauge or sensor or transducer)) with (housing near3 (wall or surface)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/17 12:44
S88	20	("4251701"   "4265603"   "4348565"   "4393966"   "4519254"   "4581510"   "4695852"   "4730092"   "4850807"   "4866989"   "5073091"   "5176120"   "5836521"   "5945605"   "6102490"   "6375433"   "6484589"   "6517330"). PN. OR ("4788391"   "6547531"   "6742994"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/17 12:56
S89	18	("2221874"   "3081631"   "3281518"   "3824579"   "3834846"   "4074575"). PN. OR ("4265603").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/17 12:59
S90	18	S89 not S88	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/17 13:00
S91	584	73/726.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04
S92	37	S91 and pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04
S93	547	S91 not S92	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04
S94	45	S93 and (cylinder or cylindrical) with housing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04
S95	502	S93 not S94	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04
S96	49	S95 and (strain with (housing or cylinder))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:04

S97	453	S95 not S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 17:11
S98	41	S94 and (strain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 18:09
S99	945	92/5R.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 18:15
S100	31	S99 and strain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2012/02/21 18:15
S102	103	("1335238"   "2401563"   "2450882"   "2517976"   "2595524"   "3093946"   "3342195"   "3373872"   "3439622"   "3514217"   "3556679"   "3601103"   "3612729"   "3736910"   "3738346"   "3851469"   "3875912"   "4012942"   "4153019"   "4243008"   "4356551"   "4450811"   "4481925").PN. OR ("3498123"   "3847507"   "4450811"   "4606312"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/22 13:37
S104	6	("3664184"   "4058178"   "4860639"   "5163660"   "5905212").PN. OR ("6216581").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/22 15:09
S105	17	("20040167738"   "20050025631"   "20070132603"   "2275532"   "4644785"   "5159832"   "5163660"   "5214594"   "5377549"   "5591921"   "5592386"   "5904071"   "6144307"   "6204771"   "6216581"   "6922152").PN. OR ("7656305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/22 15:13

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